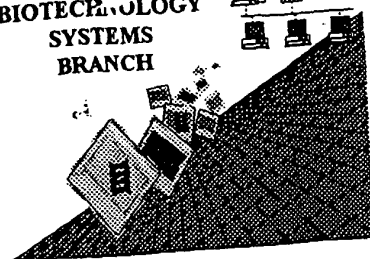


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/659,983B
Source: O/PE
Date Processed by STIC: 6/5/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Does Not Comply
Corrected Diskette Needed

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

pg 2, 6

3 <110> APPLICANT: Meloen, Robert Hans
 4 Oonk, Hendrica Berendina
 6 <120> TITLE OF INVENTION: An Improved Peptide, Immunogenic Composition and Vaccine or
 Medical
 7 Preparation, a Method to Immunise Animals Against the Hormone LHRH, and Analogs
 8 of the LHRH Tandem Repeat Peptide and their Use as Vaccine
 10 <130> FILE REFERENCE: 2183-4518US
 12 <140> CURRENT APPLICATION NUMBER: 09/659,983B
 OK-> 13 <141> CURRENT FILING DATE: 2001-05-12
 15 <150> PRIOR APPLICATION NUMBER: US 09/274,048
 16 <151> PRIOR FILING DATE: 1999-03-22
 18 <150> PRIOR APPLICATION NUMBER: US 08/981,557
 19 <151> PRIOR FILING DATE: 1995-06-07
 21 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00223
 22 <151> PRIOR FILING DATE: 1996-06-06
 24 <150> PRIOR APPLICATION NUMBER: US 08/447,298
 25 <151> PRIOR FILING DATE: 1995-06-07
 27 <150> PRIOR APPLICATION NUMBER: US 08/476,013
 28 <151> PRIOR FILING DATE: 1995-06-07
 30 <160> NUMBER OF SEQ ID NOS: 13
 32 <170> SOFTWARE: PatentIn version 3.0
 34 <210> SEQ ID NO: 1
 35 <211> LENGTH: 10
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Sus scrofa
 39 <220> FEATURE:
 40 <221> NAME/KEY: PEPTIDE
 41 <222> LOCATION: (1)..(1)
 42 <223> OTHER INFORMATION: X=pyroglutamic acid
 45 <220> FEATURE:
 46 <221> NAME/KEY: PEPTIDE
 47 <222> LOCATION: (10)..(10)
 48 <223> OTHER INFORMATION: X=Gly-NH2
 51 <400> SEQUENCE: 1
 OK-> 53 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
 54 1 5 10
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 10
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Homo sapiens
 61 <220> FEATURE:
 62 <221> NAME/KEY: PEPTIDE
 63 <222> LOCATION: (1)..(1)
 64 <223> OTHER INFORMATION: X=pyroglutamic acid
 67 <220> FEATURE:
 68 <221> NAME/KEY: PEPTIDE
 69 <222> LOCATION: (10)..(10)
 70 <223> OTHER INFORMATION: X=Gly-NH2

RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

73 <400> SEQUENCE: 2
 W--> 75 Xaa His Trp Ser His Gly Trp Tyr Pro Xaa
 76 1 5 10
 78 <210> SEQ ID NO: 3
 79 <211> LENGTH: 20
 80 <212> TYPE: PRT
 81 <213> ORGANISM: artificial
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
 forms
 85 GnRH/ LHRH
 87 <220> FEATURE:
 88 <221> NAME/KEY: PEPTIDE
 89 <222> LOCATION: (1)..(1)
 90 <223> OTHER INFORMATION: X=pyroglutamic acid or Gln with attached tail of one or more
 addi
 91 tional amino acid
 94 <220> FEATURE:
 95 <221> NAME/KEY: PEPTIDE
 96 <222> LOCATION: (3)..(3)
 97 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
 100 <220> FEATURE:
 101 <221> NAME/KEY: PEPTIDE
 102 <222> LOCATION: (11)..(11)
 103 <223> OTHER INFORMATION: X=direct bond or a spacer group between Gly at position 10
 and Gl
 104 n at position 1
 107 <220> FEATURE:
 108 <221> NAME/KEY: PEPTIDE
 109 <222> LOCATION: (13)..(13)
 110 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
 113 <220> FEATURE:
 114 <221> NAME/KEY: PEPTIDE
 115 <222> LOCATION: (20)..(20)
 116 <223> OTHER INFORMATION: X=Gly-NH2 or Gly with attached tail of one or more amino
 acids
 119 <220> FEATURE:
 120 <221> NAME/KEY: VARIANT
 121 <222> LOCATION: (10)..(20)
 122 <223> OTHER INFORMATION: variable repeat sequence <>10-20
 125 <400> SEQUENCE: 3
 W--> 127 Xaa His Xaa Ser Tyr Gly Leu Arg Pro Gly Xaa His Xaa Ser Tyr Gly
 128 1 5 10 15
 W--> 130 Leu Arg Pro Xaa
 131 20
 133 <210> SEQ ID NO: 4
 134 <211> LENGTH: 21
 135 <212> TYPE: PRT
 136 <213> ORGANISM: artificial
 138 <220> FEATURE:
 139 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
 forms
 140 GnRH/ LHRH

Xaa can only represent a single amino acid, nothing else

142 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

143 <221> NAME/KEY: PEPTIDE
 144 <222> LOCATION: (1)..(1)
 145 <223> OTHER INFORMATION: X=pyroglutamic acid
 148 <220> FEATURE:
 149 <221> NAME/KEY: PEPTIDE
 150 <222> LOCATION: (6)..(6)
 151 <223> OTHER INFORMATION: X=D-Lys
 154 <220> FEATURE:
 155 <221> NAME/KEY: PEPTIDE
 156 <222> LOCATION: (11)..(11)
 157 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
 160 <220> FEATURE:
 161 <221> NAME/KEY: PEPTIDE
 162 <222> LOCATION: (16)..(16)
 163 <223> OTHER INFORMATION: X=D-Lys
 166 <220> FEATURE:
 167 <221> NAME/KEY: PEPTIDE
 168 <222> LOCATION: (21)..(21)
 169 <223> OTHER INFORMATION: X=Cys-NH2
 172 <400> SEQUENCE: 4

W-1> 174 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Gly Xaa His Thr Ser Tyr Xaa
 175 1 5 10 15

W-1> 177 Leu Arg Pro Gly Xaa
 178 20

180 <210> SEQ ID NO: 5

181 <211> LENGTH: 21

182 <212> TYPE: PRT

86> 183 <213> ORGANISM: artificial

185 <220> FEATURE:

186 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms

187 GnRH/ LHRH

189 <220> FEATURE:

190 <221> NAME/KEY: PEPTIDE

191 <222> LOCATION: (1)..(1)

192 <223> OTHER INFORMATION: X=pyroglutamic acid

195 <220> FEATURE:

196 <221> NAME/KEY: PEPTIDE

197 <222> LOCATION: (4)..(4)

198 <223> OTHER INFORMATION: X=amino acid substitution

201 <220> FEATURE:

202 <221> NAME/KEY: PEPTIDE

203 <222> LOCATION: (6)..(6)

204 <223> OTHER INFORMATION: X=D-Lys

207 <220> FEATURE:

208 <221> NAME/KEY: PEPTIDE

209 <222> LOCATION: (11)..(11)

210 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer

213 <220> FEATURE:

214 <221> NAME/KEY: PEPTIDE

RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

215 <222> LOCATION: (14)..(14)
 216 <223> OTHER INFORMATION: X=amino acid substitution
 219 <220> FEATURE:
 220 <221> NAME/KEY: PEPTIDE
 221 <222> LOCATION: (16)..(16)
 222 <223> OTHER INFORMATION: X=D-Lys
 225 <220> FEATURE:
 226 <221> NAME/KEY: PEPTIDE
 227 <222> LOCATION: (21)..(21)
 228 <223> OTHER INFORMATION: X=Cys-NH2
 231 <400> SEQUENCE: 5
 W-1-233 Xaa His Thr Xaa Tyr Xaa Leu Ala Pro Gly Xaa His Thr Xaa Tyr Xaa
 234 1 5 10 15
 W-1-236 Leu Arg Pro Gly Xaa
 237 20
 239 <210> SEQ ID NO: 6
 240 <211> LENGTH: 21
 241 <212> TYPE: PRT
 OK-242 <213> ORGANISM: artificial
 244 <220> FEATURE:
 245 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
 forms
 246 GnRH/ LHRH
 248 <220> FEATURE:
 249 <221> NAME/KEY: PEPTIDE
 250 <222> LOCATION: (1)..(1)
 251 <223> OTHER INFORMATION: X=pyroglutamic acid
 254 <220> FEATURE:
 255 <221> NAME/KEY: PEPTIDE
 256 <222> LOCATION: (6)..(6)
 257 <223> OTHER INFORMATION: X=D-Lys
 260 <220> FEATURE:
 261 <221> NAME/KEY: PEPTIDE
 262 <222> LOCATION: (8)..(8)
 263 <223> OTHER INFORMATION: X=amino acid substitution
 266 <220> FEATURE:
 267 <221> NAME/KEY: PEPTIDE
 268 <222> LOCATION: (11)..(11)
 269 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
 272 <220> FEATURE:
 273 <221> NAME/KEY: PEPTIDE
 274 <222> LOCATION: (16)..(16)
 275 <223> OTHER INFORMATION: X=D-Lys
 278 <220> FEATURE:
 279 <221> NAME/KEY: PEPTIDE
 280 <222> LOCATION: (18)..(18)
 281 <223> OTHER INFORMATION: X=amino acid substitution
 284 <220> FEATURE:
 285 <221> NAME/KEY: PEPTIDE
 286 <222> LOCATION: (21)..(21)

RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

287 <223> OTHER INFORMATION: X=Cys-NH2

290 <400> SEQUENCE: 6

292 Xaa His Thr Ser Tyr Xaa Leu Xaa Pro Gly Xaa His Thr Ser Tyr Xaa

293 1 5 10 15

W--> 295 Leu Xaa Pro Gly Xaa

296 20

298 <210> SEQ ID NO: 7

299 <211> LENGTH: 21

300 <212> TYPE: PRT

OK 301 <213> ORGANISM: artificial

303 <220> FEATURE:

304 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms

305 GnRH/ LHRH

307 <220> FEATURE:

308 <221> NAME/KEY: PEPTIDE

309 <222> LOCATION: (1)..(1)

310 <223> OTHER INFORMATION: X=pyroglutamic acid

313 <220> FEATURE:

314 <221> NAME/KEY: PEPTIDE

315 <222> LOCATION: (6)..(6)

316 <223> OTHER INFORMATION: X=D-Lys

319 <220> FEATURE:

320 <221> NAME/KEY: PEPTIDE

321 <222> LOCATION: (10)..(10)

322 <223> OTHER INFORMATION: X=amino acid substitution

325 <220> FEATURE:

326 <221> NAME/KEY: PEPTIDE

327 <222> LOCATION: (11)..(11)

328 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer

331 <220> FEATURE:

332 <221> NAME/KEY: PEPTIDE

333 <222> LOCATION: (16)..(16)

334 <223> OTHER INFORMATION: X=amino acid substitution

337 <220> FEATURE:

338 <221> NAME/KEY: PEPTIDE

339 <222> LOCATION: (20)..(20)

340 <223> OTHER INFORMATION: X=amino acid substitution

343 <220> FEATURE:

344 <221> NAME/KEY: PEPTIDE

345 <222> LOCATION: (21)..(21)

346 <223> OTHER INFORMATION: X=Cys-NH2

349 <400> SEQUENCE: 7

OK 351 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Xaa Xaa His Thr Ser Tyr Xaa

352 1 5 10 15

W--> 354 Leu Arg Pro Xaa Xaa

355 20

357 <210> SEQ ID NO: 8

358 <211> LENGTH: 42

359 <212> TYPE: PRT

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

file:///C:/CRF3/06052001/VSR1659983B.htm

6/5/01

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:07

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:242 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:360 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:434 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:481 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:528 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:587 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:646 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13